

**System and Method of Communicating High Rate Pulse Signals in a  
Multipath Environment**

5

*Abstract*

A high rate impulse radio communication system where the modulation period is shorter than the multipath decay period and relates to the placement of pulses in a sequence of pulses such that pulses subsequent to the first pulse are placed in time at locations that are optimum based on the multipath response of  
10 the channel.